UDP-N-Acetylmuramoylalanine--D-Glutamate Ligase (murD) Rhodospirillum Rubrum Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD), Recombinant Protein
Full Product Name	Recombinant Rhodospirillum rubrum UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD)
Product Gene Name	murD recombinant protein
Product Synonym Gene Name	murD
Sequence	MAKLIPLYQY AGQDLGIMGL GKSGMATARA LAGTGTRVHA WDDSPILRDA ARAESVPLCD LTDQTSRTSP WPALQGVVWS PGIPHTFPQP HPVAVIAHER GVPLFCDIDL LARARQDCFF LGITGTNGKS TTTALIGHIL KAARHPVQVG GNLGTPALSF EPLPFHGTYV LELSSYQLEL VPSLCCDVAV LLNITPDHLA RHGGMDGYIA AKRQIFRCGP RPGVAVVCID DEPSLAIHDA LCRENGRKVV AVSTRALPRG GVGAVDGQLV DATQGRPRAV ADLTTIATLP GAHNWQNAAA AYAACRQHGI DAKIIVEAMA SFPGLPHRQE LVAEIDGVRF INDSKATNAD AADKALRCYD TVYWIAGGQP KEGGIVSLEP HFHRMRQAYL IGQAAPAFER TLKGKVPLSQ VGTLTRAVTE AAKAAWRDAI PGAVVLLSPA CASWDQFSSF EHRGDIFREL VADLAHTRAA AKPGGRR
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	50,876 Da
Sequence Positions	1-477, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q2RVU2
Species	Rhodospirillum rubrum (strain 11170 / NCIB 8255)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murD recombinant protein	MBS1306955 is a recombinant protein targeting murD. Also known as Recombinant Rhodospirillum rubrum UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of murD recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for murD. It may not necessarily be applicable to this product.

NCBI GI #	499707973
NCBI GeneID	3833625
NCBI Accession #	WP_011388707.1

UniProt Primary Accession #	Q2RVU2
UniProt Related Accession #	Q2RVU2
GenBank Nucleotide #	WP_011388707.1
NCBI Official Full Name	UDP-N-acetylmuramoyl-L-alanine--D-glutamate ligase
NCBI Official Symbol	murD
UniProt Protein Name	UDP-N-acetylmuramoylalanine--D-glutamate ligase
UniProt Synonym Protein Names	D-glutamic acid-adding enzyme
Protein Family	UDP-N-acetylmuramoylalanine--D-glutamate ligase
UniProt Gene Name	murD
NCBI Protein Information	UDP-N-acetylmuramoyl-L-alanyl-D-glutamate synthetase
UniProt Comments for murD	Cell wall formation. Catalyzes the addition of glutamate to the nucleotide precursor UDP-N-acetylmuramoyl-L-alanine (UMA).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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